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*Admitted only in Maryland *Admitted only in Virginia Practice Limited to Federal Agencies

August 10, 2005

WRITER'S DIRECT NUMBER: (202) 772-8831 INTERNET ADDRESS: JWEAVER@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Art Unit 2631

Attn: Mail Stop Amendment

Re:

U.S. Utility Patent Application

Appl. No. 09/986,764; Filed: November 9, 2001

Method and Apparatus for Reducing DC Offsets in a Communication

System

Inventors:

RAWLINS et al.

Our Ref:

1744.1330000

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. PTO Fee Transmittal Form (PTO/SB/17);
- 2. Sixth Supplemental Information Disclosure Statement;
- 3. A listing of the cited documents on Form PTO-1449 (3 pages);
- 4. A copy of the cited document (AQ59);
- One (1) return postcard; and
- 6. Credit Card Payment Form (PTO-2038) in the amount of \$180.00 to cover the Information Disclosure Statement Fee.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

Commissioner for Patents August 10, 2005 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

JM & W___

Jeffrey S. Weaver

Attorney for Applicants Registration No. 45,608

MQL/JSW:apg Enclosures

428815_1.DOC

Steme, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

Name (Print/Type) Jeffrey S. Weaver

Equivalent to Form PTO/SB/17 (12-04) Approved for use through 07/31/2006.

Under the Paperwork Re	duction Act of 1995	no persons are requir	ed to r	U.S. Patent espond to a collection	and I rade	emark Office; U. ation unless it d	isplays a valid (OMB control number
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SUBMITTED BY	Jan-s	1		Registration No.		Tol	lenhone	
Signature	-pr			(Attorney/Agent)	45.	608 'e	lephone (2	202) 371-2600

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box, Alexandria, VA 22313-1450.

August 10, 2005

Date



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Confirmation No.: 5623

RAWLINS et al.

Art Unit: 2631

Appl. No.: 09/986,764

Examiner: Vo, Don Nguyen

Filed: November 9, 2001

Atty. Docket: 1744.1330000

For: Method and Apparatus for Reducing DC Offsets in a Communication System

Sixth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Sixth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fifth Supplemental Information Disclosure Statement filed on March 7, 2005 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information mag not be prior art, and/or to prove that this information may not be enabling for the teaching purportedly offered.

Applicants provide the following comments regarding the documents:

Document AQ59 was cited in a Notice of Allowance in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Documents AC60-AI60 and AA61 were cited in an Office Action in related U.S. Patent Application No. 09/855,851, filed May 16, 2001, entitled "Apparatus, System, and Method for Down-Converting and Up-Converting Electromagnetic Signals," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,465,415, 6,049,706, 6,061,551, 6,580,902, 6,687,493, and 6,813,485, all of which have already been cited in the present application.

Documents AB61 and AC61 are co-owned patents which are directed to related subject matter.

Document AD61 was cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method And System For Down-Converting An Electromagnetic Signal, And Transforms For Same," directed to related subject matter. Also cited in said Office Action were U.S. Pat. Nos. 5,678,226 and 6,094,084, which have already been cited in the present application.

Document AE61 was cited in an Office Action in related U.S. Patent Application No. 09/476,092, filed January 3, 2000, entitled "Analog Zero IF FM Decoder And Embodiments Thereof, Such As The Family Radio Service," directed to related subject matter. Also cited in said Office Action were U.S. Pat. Nos. 5,600,680 and 5,606,731, which have already been cited in the present application.

Documents AF61-AI61 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-Converter Using Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action was Stewart, R.W. and Pfann, E., "Oversampling and sigmadelta strategies for data conversion," *Electronics & Communication Engineering Journal*, IEEE, pp. 37-47 (February 1998), which has already been cited in the present application.

Documents AA62 and AB62 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/632,855, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments," directed to related subject matter.

Document AC62 was cited in an Office Action in related U.S. Patent Application No. 09/796,824, filed March 2, 2001, entitled "Phased Array Antenna Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,742,189, which has already been cited in the present application.

Documents AD62-AF62 were cited in an Office Action in related U.S. Patent Application No. 10/318,207, filed December 13, 2002, entitled "Method And Apparatus For Reducing Re-Radiation Using Techniques Of Universal Frequency Translation Technology," directed to related subject matter.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Atty. Docket: 1744.1330000

Atty. Docket: 1744.1330000

	Applicants ha	ve checked the appropriate boxes below.
□ 1.	Statement une	der 37 C.F.R. 1.704(d). Each item of information contained in this
	Information I	Disclosure Statement was cited in a communication from a foreign
•	patent office	in a counterpart application and this communication was not received
	by any indivi	dual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to
	the filing of th	is information disclosure statement.
 2.	Filing under	37 C.F.R. § 1.97(b). This Information Disclosure Statement is being
	filed before th	ne mailing date of a first Office Action on the merits. No statement or
	fee is required	l.
⊠3.	Filing under	37 C.F.R. § 1.97(c). This Information Disclosure Statement is being
	filed more tha	n three months after the U.S. filing date AND after the mailing date of
	the first Offi	ce Action on the merits, but before the mailing date of a Final
	Rejection, or	Notice of Allowance, or an action that otherwise closes prosecution in
	the application	n.
	□ a.	Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item
		of information contained in this Information Disclosure Statement
		was first cited in any communication from a foreign patent office in a
		counterpart foreign application not more than three months prior to
		the filing of this Information Disclosure Statement. 37 C.F.R. §
		1.97(e)(1).
	□ b.	Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of
		information in this Information Disclosure Statement was cited in a

communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee.
 Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$______ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more Atty. Docket: 1744.1330000

than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☐ 5.	The document(s) was/were cited in a search report by a foreign patent office in a
	counterpart foreign application. Submission of an English language version of the
	search report that indicates the degree of relevance found by the foreign office is
	provided in satisfaction of the requirement for a concise explanation of relevance.
	1138 OG 37, 38.
☐ 6.	A concise explanation of the relevance of the non-English language document(s)
	appears below in accordance with 37 C.F.R. § 1.98(a)(3).
⊠ 7.	A copy of document AQ59 is enclosed. However, in accordance with 37 C.F.R. §
	1.98(a)(2), copies of the U.S. patents and patent application publications cited on the
	attached Form PTO-1449 are not enclosed.
□ 8.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
	Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
<u> </u>	It is expected that the examiner will review the prosecution and cited art in the
	parent application no(s) in accordance with MPEP 2001.06(b), and
	indicate in the next communication from the office that the art cited in the earlier
	prosecution history has been reviewed in connection with the present application.

Atty. Docket: 1744.1330000

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

MA.W_

Jeffrey S. Weaver Attorney for Applicants Registration No. 45,608

Date:

8-10-05

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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	Page 1 of 3
ATTY. DOCKET NO.	APPLICATION NO.
1744.1330000	09/986,764
FIRST NAMED INVENTOR	
Gragon, C. DAWLING	

		SUPPLEMENTAL		Gregory S. RAWLINS	₹		
INFORMATION DISCLOSURE STATEMENT			FILING DATE November 9, 2001	ART 2631	ART UNIT		
			U.S. PAT	ENT DOCUMENTS			
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB	4 700 007	40/4000	Did.			
	AC60	4,789,837 5,634,207	05/1997	Ridgers Yamaji et al.			
	AD60 AE60	5,642,071	06/1997	Sevenhans et al.		<u> </u>	
			04/2001	Sevennans et al.			
	AF60	6,211,718 B1	+				
	AG60	6,212,369 B1 6,308,058 B1	04/2001	Avasarala			
	AH60		10/2001	Souetinov et al.			
	Al60	6,633,194 B2	10/2003	Arnborg et al.		<u></u>	<u> </u>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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FORM PTO-1449

SIXTH SUPPLEMENTAL

	Page 2 of 3
ATTY. DOCKET NO.	APPLICATION NO.
1744.1330000	09/986,764
FIRST NAMED INVENTOR	

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	AA61	2001/0036818 A1	11/2001	Dobrovolny			
	AB61	6,873,836 B1	03/2005	Sorrells et al.	-		
	AC61	6,879,817 B1	04/2005	Sorrells et al.			
	AD61	6,057,714	05/2000	Andrys et al.			
	AE61	2003/0081781 A1	05/2003	Jensen et al.			
	AF61	5,994,689	11/1999	Charrier			
	AG61	6,512,544 B1	01/2003	Merrill et al.			
	AH61	6,628,328 B1	09/2003	Yokouchi et al.			
	Al61	6,801,253 B1	10/2004	Yonemoto et al.			
	<u> </u>	1.	FOREIGN P	ATENT DOCUMENTS			
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
•	AJ						Yes No
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SIXTH SUPPLEMENTAL

	Page 3 of 3
ATTY. DOCKET NO.	APPLICATION NO.
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FIRST NAMED INVENTOR	
Gragory S. DAMILING	

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	AA62	3,737,778	06/1973	Van Gerwen et al.						
	AB62	4,286,283	08/1981	Clemens						
	AC62	4,241,451	12/1980	Maixner et al.						
	AD62	5,014,130	05/1991	Heister et al.						
· -	AE62	5,390,215	02/1995	Anita et al.						
	AF62	5,805,460	09/1998	Greene et al.		:				
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